

B¹ 4. A method for constructing a WVPN (Wireless Virtual Private Network) for a CDMA system which includes a mobile telephone serviced by a private network group, a BTS (Base Transceiver System) for transmitting and receiving a message with the mobile telephone, a BSC (Base Station Controller) for managing the BTS, a MSC (Mobile Switching Center) including a MSA (Mobile Signaling Access), a MCC (Mobile Call Control), and a VLR (Visitor Location Register), a HLR (Home Location Register), and a SCP (Service Control Point) for storing an extension number with respect to a calling subscriber serviced by a private network group, a method for constructing a WVPN for a CDMA system comprising the steps of:

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a first step for registering a private network group and extension number to the SCP and judging whether a call by a certain calling subscriber corresponds to an extension number or a MDN (Mobile Directory Number) when a certain calling subscriber calls a certain receiving subscriber of the same group as the calling subscriber;

a second step for constructing a mobile communication network using the MDN in the case that as a result of the first step the call by the calling subscriber corresponds to the MDN and constructing a WVPN in the case that the call by the calling subscriber corresponds to the extension number;

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number;

B' could, a judgement sub-step for judging whether the extension number transmitted to the SCP exists in the group of the calling subscriber in the case that when there is the group of the telephone number of the calling subscriber as a result of the judgement of the first sub-step; and

SUB C including a sub-step for transmitting a non-available call connection guide message to the calling subscriber in the case that the extension number does not exist in a group of the telephone number of the calling subscriber as a result of a judgement as to whether there is a group of the telephone number of the calling subscriber based on a judgement whether an extension number transmitted to the SCP exists and in the case that the extension number exists in the group of the calling subscriber as a result of a judgement of the judgement sub-step.
